



CITY OF LODI

COUNCIL COMMUNICATION

AGENDA TITLE: Public Benefits Program Grant – Hill House Museum Demand-side Management Project (\$14,700.00)

MEETING DATE: June 7, 2000

PREPARED BY: Electric Utility Director

RECOMMENDED ACTION: That the City Council approve a Public Benefits Program Grant in the amount of \$14,700.00 for the Hill House Museum, as part of a Demand-side Management Project.

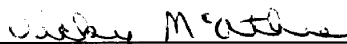
BACKGROUND INFORMATION: Hill House Museum is located at 826 S. Church Street. Representatives of Hill House have been investigating the possibility of installing central heat and air conditioning throughout the museum to replace the individual room furnaces.


Hill House is proposing to install two (2) high efficiency heat pumps, and related materials, (please see attached documentation) to achieve the goal of central heat and air conditioning for the facility. The heat pump units are manufactured by Bryant, and have a Seasonal Energy Efficiency Rating (SEER) of 12.0, which is identified under the City of Lodi Electric Utility program guidelines, as energy efficient.

The City of Lodi Public Benefits Program has four (4) customer groups: community/non-profit, residential, municipal, and commercial/industrial. The Public Benefits Program also has four (4) main categories: demand-side management, energy research, renewables, and assistance for low-income customers. This particular Public Benefits Program grant is identified as community/non-profit, demand-side management.

After several discussions with Hill House Museum representatives, and reviews of their proposal, the City of Lodi Electric Utility respectfully recommends approval of this grant as a qualifying component of the City of Lodi Public Benefits Program.

FUNDING: 164605 – Public Benefits Program Fund - (Category - Demand-side Management)

FUNDING APPROVAL: 
Vicky McAthie, Finance Director



Alan N. Vallow
Electric Utility Director

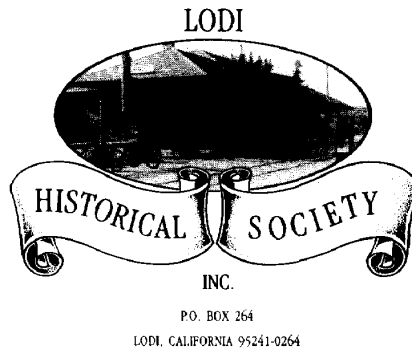
PREPARED BY: Rob Lechner, Manager of Customer Programs

ANV/RL/1st

C: City Attorney

APPROVED:


H. Dixon Flynn - City Manager



May 17, 2000

Mr. Alan Vallow
City of Lodi Electric Utility
1331 South Ham Lane
Lodi, CA 95242

Dear Alan,

Established in 1988, the Lodi Historical Society is a non-profit 501(c)(3) organization dedicated to preserving, protecting, and maintaining the history of Lodi. The Society promotes and encourages an interest in the preservation of history, sites, and landmarks in Lodi. In addition, the Society operates the Hill House Museum and publishes a journal of local history.

The Hill House Museum was opened to the public in 1992. Volunteers conduct tours through the Victorian home, located at 826 South Church Street, on Sundays from 1-4:00 P.M. Special tours, which range from elementary schoolchildren to senior groups, are arranged by appointment. We depend entirely upon membership dues, donations, and grants to support this venture.

We are seeking financial support from the City of Lodi Electric Utility and the City of Lodi Public Benefits Program in order to install an energy efficient cooling and heating system. We wish to provide our visitors a more comfortable journey into the past and to better protect the museum contents from the temperature extremes we currently experience.

Sincerely,

Leonard Messer
President

c: Rob Lechner



Lodi Historical Society Board of Directors

Leonard Messer, President

Bing Taylor, 1st Vice President

Vesta Mason, 2nd Vice President

Janice Roth, Treasurer

Bev Hoag, Recording Secretary

Nancy Schmer, Corresponding Secretary

Lynn Benbrook

Susanne Benbrook

Ruth Brown

Ralph M. Lea

Hugh Metcalf

Gladys Mettler

Marilyn Morris

Merry Sasaki

Walter Scott

Patricia White

Lodi Historical Society 2000 Budget

Income

<u>Description</u>	<u>Estimated Budget</u>
Dues	4,500.00
Donations	2,500.00
Fund Raisers	<u>6,000.00</u>
Total Income	\$13,000.00

Expenses

<u>Description</u>	<u>Estimated Budget</u>
House repairs	1,000.00
Insurance	2,000.00
Utilities/Alarm	1,500.00
Office/Cleaning Supplies	200.00
Historian Publication	3,400.00
Postage	1,300.00
Fund Raisers	2,000.00
Plaque	600.00
Professional Dues/Fees	400.00
Advertising	100.00
Miscellaneous	<u>100.00</u>
Total Expenses	\$12,600.00

Internal Revenue Service

Department of the Treasury

District
Director

300 N. Los Angeles Street, MS 7043
Los Angeles, CA 90012

LODI HISTORICAL SOCIETY, INC.
P.O. BOX 264
LODI, CA 95241-0264

Person to Contact:

L BARRAGAN

Telephone Number:

(213) 894-2336

Refer Reply to:

EO(0928)98

Date:

SEPTEMBER 29, 1998

EIN: 68-0182336

Dear Taxpayer:

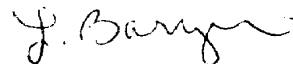
This letter is in response to your request for a copy of the determination letter for the above named organization.

Our records indicate that this organization was recognized to be exempt from Federal income tax in OCTOBER 1988 as described in Internal Revenue Code Section 501(c)(3). It is further classified as an organization that is not a private foundation as defined in Section 509(a) of Code, because it is an organization described in Section 509(a)(2).

The exempt status for the determination letter issued in OCTOBER 1988 continues to be in effect.

If you need further assistance, please contact our office at the above address or telephone number.

Sincerely,



Disclosure Assistant

Lodi Historical Society, Inc. — Membership Application

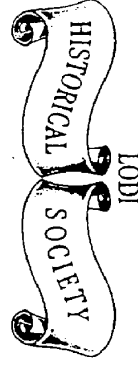
Name (Please print) _____
first middle last
 Address _____
 City _____ State _____ Zip _____
 Telephone () _____
Area Code
 Signature _____

Annual Dues Are Payable in January:

Life\$1,000 Patron\$100 Family\$25
 Individual\$15 Student (through high school).....\$5

Mail Check To: Lodi Historical Society, Inc. P.O. Box 264, Lodi, CA 95241-0246
 Phone Inquiries: (209) 369-6073

PLACE
STAMP
HERE



LODI HISTORICAL SOCIETY, INC.
 P.O. Box 264
 Lodi, CA 95214-0264

Lodi Historical Society, Inc. — Gift or Memorial Form

Donor Name _____
 Address _____
 City _____ State _____ Zip _____
 Circle One: Memorial Birthday Congratulations Anniversary
 Thank You Other _____

Please Notify:

Name _____
 Address _____
 City _____ State _____ Zip _____

Mail Check To: Lodi Historical Society, Inc. P.O. Box 264, Lodi, CA 95241-0246
 All Memorials Are Tax Deductible.

Purpose:

- To preserve, protect and maintain the history of the City of Lodi, California.
- To promote an interest in and encourage the preservation of historical knowledge, historical sites and landmarks within the city.
- To establish a historical museum.
- To disseminate research by means of publications and the use of various media.
- To assist other historical societies with mutual interests.

How to Join:

Simply fill out the application and send along with your dues to the address indicated on this envelope.

The Hill House

Built at the turn of the century, Hill House was the home of George Washington Hill, his wife Mary Hill and their children, Nellie and Maurice. Mrs. Hill's half-sister, Daisy, also lived at Hill House.



The Hill House in a 1951 photograph.

The house was moved in 1948 from its original location on School Street, across from the Lodi Post Office, to its present location at 826 South Church — a distance of about six blocks. Because of the move, required changes were made to bring the house up to city code. Changes, however, were primarily in the plumbing, electrical and heating systems, although an upper room was added at the time.

Today, Hill House is operated under the auspices of the Lodi Historical Society and the Hill House Committee. Volunteers conduct tours most Sundays from 1-4 PM. Special tours may be arranged by calling 369-6073. This venture is supported by membership fees, donations and grants.

The Hill Family

George Washington Hill moved to Lodi (then Mokelumne) from his native Maine in 1869. The following year Mr. Hill started a jewelry business, a trade he learned at the Waltham Factory. Mr. Hill was also an accomplished cabinet maker. He made

the large bookcase, the wall clock and the grandfather clock which are displayed in the house. Mr. Hill died February 22, 1927, Washington's birthday.

Mary Lewis, the future Mrs. Hill, was born in 1857 in Ann Arbor, Michigan. Mary was just a child when her mother moved to Lodi, California after having married Silas Pleas in 1867. Daisy, Mary's half-sister, was born to Mr. and Mrs. Pleas in 1872. Daisy later moved into Hill House to be raised by George and Mary. Daisy attended Lodi schools and worked with Mr. Hill at Hill's Jewelry Store. She was known to be the first woman watchmaker in California and worked in that trade for sixty years. Daisy retired in 1950 and died on November 20, 1960.

Mary Lewis and George Washington Hill were married in 1875. They lived in a cottage behind the Hill's Jewelry Store on Sacramento Street, then the main street of town. George was a rather rigid and staid individual while Mary was vivacious and socially inclined, with a great liking for people. She took it upon herself to welcome newcomers to Lodi.



Turn-of-the-Century Victrola

A fine example of Victorian entertainment.

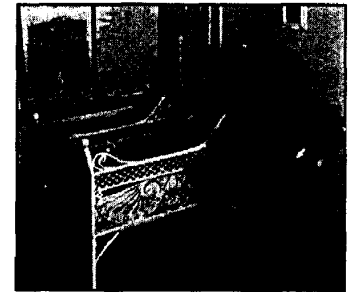
also an accomplished photographer, developing, printing and tinting her own photos. Nellie died in 1912 while still in her twenties.

In 1885, the Hill family bought a home on South School Street. They lived there until January of

1902, when they moved into Hill House. Mr. Hill designed the house and it was built by the Cary Brothers.

In 1900, a son, Maurice was born to Mr. and Mrs. Hill. By this time, Mary was 44 and George was 60 years of age. Maurice, like his sister Nellie, was very artistic. He wrote music, poetry, and stories—many of which were published.

Maurice was a concert pianist and toured Hawaii for a period of time giving concerts. Samples of his published works can be viewed at Hill House and some are available upon request.



Elegant Victorian Baby Crib

Located in the nursery on the second floor.

When Maurice died in 1984, he left the Hill House and its contents in a trust, to the people of Lodi, with the stipulation that it be turned into a museum. It was his desire that future generations would be able to see how life was lived in the early years of Lodi.

The Hill House Museum is a non-profit organization operated by volunteers of the Lodi Historical Society.

Museum Hours:

Sundays: 1-5 PM

(No tours start after 4 PM)

Special Tours by Appointment

(209) 369-6073

Admission Free

Donations Gladly Accepted

The Lodi Historical Society

Established in 1988, the Lodi Historical Society is a non-profit organization dedicated to preserving, protecting and maintaining the history of Lodi.

The Society promotes and encourages an interest in the preservation of history, sites and landmarks in Lodi.



Dining Room Table
Ready for a Victorian tea.

The Lodi Historical Society operates the Hill House Museum and publishes a journal of local history.

The Lodi Historical Society depends entirely upon donations and grants to support its endeavors. You can help by joining the Lodi Historical Society. Gift memberships are also available for any occasion.

Lodi Historical Society, Inc.

P.O. Box 264

Lodi, CA 95241-0246

Membership Application

Name _____

Address _____

City _____ State _____ Zip _____

Annual Dues:

Life\$1,000 Patron\$100

Family\$25 Individual\$15

Student (through high school)\$5

Lodi Historical Society, Inc.
P.O. Box 264
Lodi, CA 95241-0246

Hill House Museum



826 South Church Street
Lodi, California
(209) 369-6073

Proposal

Page No.

of

Pages

**KOEHLER HEATING
& AIR CONDITIONING**
900 S. Sacramento Street
LODI, CALIFORNIA 95240
Lic. #282251
(209) 334-4756 or 334-1319

PROPOSAL SUBMITTED TO <i>Lodi Historical Society</i>		PHONE	DATE <i>5-25-00</i>
STREET		JOB NAME <i>H.V.S.C. Addition to the Hill House</i>	
CITY, STATE AND ZIP CODE		JOB LOCATION <i>826 S. Church St., Lodi</i>	
ARCHITECT	DATE OF PLANS	JOB PHONE	

We hereby submit specifications and estimates for:

*Installation of 2 Heat Pump Systems.
1 upstrs + 1 downstrs, using Bryant Equip. with Split Units.*

Down Strs - 1- FX4A06000 (5Ton) Fan coil mounted under the crawl space, 1- 663 C 060 Heat Pump, (60,000 cooling - 60,000 Heat) 12.00 SEER. 1- W.R. IFB) Set Back Stat. 10-8" Perimeter supply regs in floor. Use existing floor fur can for R.B.

Up. Strs. 1- FX4A06000 (5Ton) Fan Coil mounted in attic space. 1- 663 C 060 Heat Pump, 12.00 SEER. 1- W.R. IFB) S.B. Stat. 10-8" ceiling supply regs, 1- 25X14 R.B. Filter grill in stair landing area.

Quote includes all concrete work or pads, cutting of ceiling and floor holes, enlarging of up strs crawl hole, low + high voltage wiring. No permits or fees figured in quote.

We cannot be responsible for cracks or plaster chipping from existing ceilings while the cutting of necessary holes.

We Propose hereby to furnish material and labor — complete in accordance with above specifications, for the sum of:

dollars (\$ *14,700⁰⁰*).

Payment to be made as follows:

40% at the start of installation, 60% on completion + start up of equip.

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workmen's Compensation Insurance.

No work shall progress until previous balance has been paid.

Authorized Signature

Tim Koehler

Note: This proposal may be withdrawn by us if not accepted within *30* days.

Acceptance of Proposal — The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Date of Acceptance: _____

Signature _____

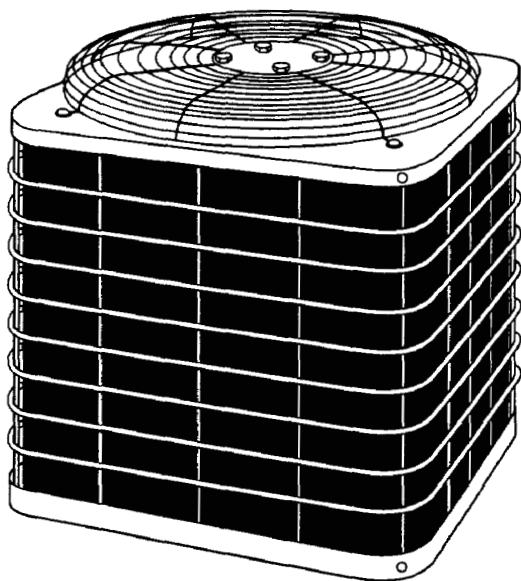
Signature _____



SPLIT-SYSTEM HEAT PUMP UNITS

663C (60 Hz)

Sizes 018 thru 060



The 663C Outdoor Sections of Split-System Heat Pumps are designed for quiet, reliable heating during the winter and cooling during the summer. With a SEER of up to 14.0 and HSPF of up to 8.3, these heat pump systems provide economy of operation through energy conservation. They recover heat for indoor comfort from outdoor air during the heating season and, by automatically reversing the refrigerant system, remove indoor heat and excess humidity during the cooling season. All models are listed with UL, c-UL, CEC, CSA-EEV and ARI.

AVAILABLE OPTIONS

ELECTRICAL RANGE—All units are offered in single phase 208-230v.

WIDE RANGE OF SIZES—Available in 7 nominal sizes from 018 through 060 to meet the needs of residential and light commercial applications.

COMPRESSOR—This unit features a scroll compressor which is significantly more efficient than conventional compressors. Its simple design offers improved reliability, and each compressor is mounted on rubber isolators for additional sound reduction. For improved serviceability, the 018 through 042 models are

equipped with a compressor terminal plug. Continuous operation is approved down to -30°F (-34.4°C) in the heating mode and down to 55°F (12.8°C) in the cooling mode. (See heating and cooling performance tables.)

BUILT-IN-RELIABLE COMPONENTS—Includes a suction-tube accumulator that reduces the amount of liquid refrigerant that reaches the compressor, a loss of charge switch, and an internal pressure relief valve for high-pressure protection.

DEFROST CONTROL BOARD—Incorporates a defrost relay, defrost timer, and low-voltage terminations. The defrost control is a time/temperature, initiation/termination control which includes 3 field-selectable time periods of 30, 50, and 90 minutes.

THERMOSTATIC EXPANSION VALVE (TXV)—This unit must be installed with a TXV on the indoor coil. The FC4 and FK4 indoor fan coils come factory equipped with a bi-flow TXV. When installed in this application, no further change is required. If any other indoor fan coil or furnace coil is used, an accessory bi-flow TXV must be installed. See optional equipment list in this publication for correct part number.

DISCHARGE MUFFLER—Incorporated to minimize low frequency sound and pressure pulsation generated by compressor discharge gas.

WEATHER-PROTECTIVE CABINET—Steel is protected with a galvanized coating and treated with a layer of zinc phosphate. A coat of modified polyester powder paint is then applied and baked on, providing each unit with a hard, smooth finish that will last for many years.

All screws on cabinet exterior are coated for a long-lasting, rust-resistant, quality appearance.

UNIT DESIGN—All units are equipped with totally enclosed fan motors for greater reliability under rain and snow conditions. The large, wraparound coil uses copper tube and enhanced aluminum fin and is designed for optimum heat transfer during heating and cooling. The vertical air discharge carries the sound and air up and away from adjacent patio areas and foliage. The condenser coil can be cleaned with a common garden hose.

EXTERNAL SERVICE VALVES—Both service valves are brass, front seating type with sweat field connections. Valves are externally located so refrigerant tube connections can be made quickly and easily. Each valve has a service port for ease of checking operating refrigerant pressures.

LIMITED WARRANTY—Standard 1-year limited warranty on all parts. Additional 4-year limited warranty on compressor.

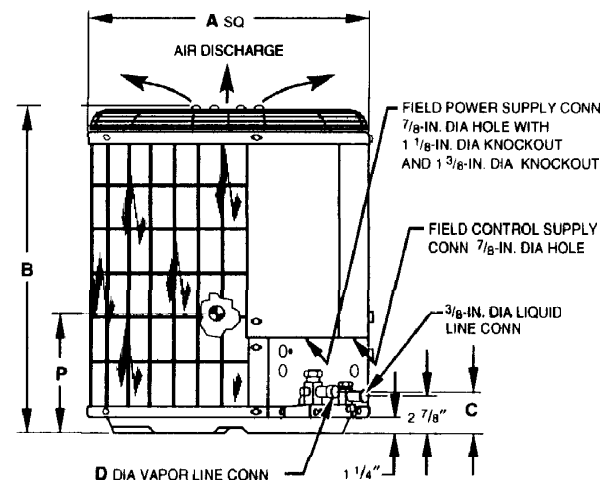
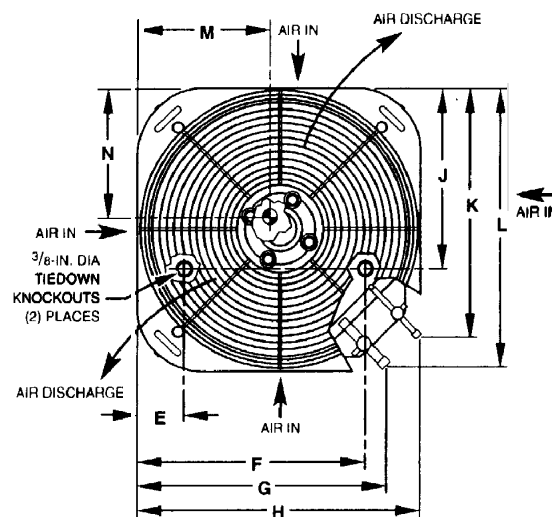


FAN COILS


MODELS FX4,
FC, & FB



Comfort, Efficiency And Value.



NOTES:

1. Allow 30 in. clearance to service side of unit, 48 in. above unit, 6 in. on one side, 12 in. on remaining side, and 24 in. between units for proper airflow.
2. Minimum outdoor operating ambient in cooling mode is 55°F, max. 125°F.
3. Maximum outdoor operating ambient in heating mode is 66°F.
4. Series designation is the 14th position of the unit model number.
5. Center of gravity .

A97071

DIMENSIONS

UNIT SIZE	SERIES	A	B	C	D	E	F	G	H	J	K	L	M	N	P	MINIMUM MOUNTING PAD DIMENSIONS
018	C	22-1/2	33-15/16	3-3/16	5/8	3-11/16	18-1/8	19-3/4	21-5/8	14-3/8	18-7/8	22-1/16	10-3/4	11	14-1/4	22-1/2 x 22-1/2
024	B	30	27-15/16	3-3/16	3/4	6-1/2	23-1/2	27-1/4	29-1/8	20	26-3/8	29-9/16	15-1/2	15	11-3/4	30 x 30
030	B	30	39-15/16	3-3/16	3/4	6-1/2	23-1/2	27-1/4	29-1/8	20	26-3/8	29-9/16	15-3/4	14-3/4	16-3/4	30 x 30
036	B	30	29-15/16	3-3/16	3/4	6-1/2	23-1/2	27-1/4	29-1/8	20	26-3/8	29-9/16	14-1/4	15	14	30 x 30
048	C	30	33-15/16	3-1/4	7/8	6-1/2	23-1/2	27-1/4	29-1/8	20	26-3/8	29-9/16	15-1/2	14-1/4	14-1/2	30 x 30
060	C	30	39-15/16	3-1/4	7/8	6-1/2	23-1/2	27-1/4	29-1/8	20	26-3/8	29-9/16	14-3/4	13-1/2	15-1/2	30 x 30

SPECIFICATIONS Continued

UNIT SIZE-SERIES	042-B	048-C	060-C
Operating Weight (Lb)	209	250	278
ELECTRICAL			
Unit Volts—Hertz—Phase	208-230—60—1		
Operating Voltage Range*	197—253		
Unit Ampacity for Wire Sizing	30.1	32.7	41.5
Min Wire Size (60°C/75°C Copper) (AWG)†	8/10		6/8
Maximum Length (60°C/75°C) (Ft)‡	104/63	97/59	126/71
Max Branch Circuit Fuse** Circuit Breaker Size (Amps)	50	55	60
Compressor Rated Load Amps	23.2	25.3	32.1
Locked Rotor Amps	104.0	129.0	169.0
Fan Motor HP & RPM	1/8 & 825		1/4 & 1125
Full Load Amps	1.1		1.4
COMPRESSOR AND REFRIGERANT			
Manufacturer Compressor	Copeland Scroll		
Refrigerant Charge (Lb) @ 15 Ft	10.38	11.13	14.00
Refrigerant Tubes (In. OD) Vapor & Liquid (Up to 50 Ft)	7/8 & 3/8	1-1/8 & 3/8	
OUTDOOR COIL & FAN			
Coil Face Area (Sq Ft)	16.18	18.67	22.40
Rated Airflow (CFM)	2800		3400
OPTIONAL EQUIPMENT			
Heat Pump Risers	P165-0001 (RCD) (2 REQ'D/UNIT)		
Time-Delay Relay	KAATD0101TDR		
Energy Minder/Interface Control	KHAIC0101AAA†††		
Service Alarm	KHASA0101AAA		
Outdoor Thermostat	KHAOT0301FST		
Secondary Outdoor Thermostat	KHAOT0201SEC		
Crankcase Heater	KAACH1201AAA		Standard
Compressor Start Assist-Capacitor/Relay	KSAHS1501AAA	KSAHS1701AAA	KSAHS1601AAA
Compressor Start Assist-PTC	KAACS0201PTC		
Sound Hood	KSASH0601COP	KSASH1701COP	
Bi-flow TXV Kits (Hard Shutoff)	KHATX0601HSO	KHATX0701HSO	
Bi-flow TXV Kits (RPB)	N/A		
Low-Pressure Switch	Standard		
High-Pressure Switch	KHAHI0201HPS		
Filter Drier—Bi-flow	P504-8163S (RCD)		
Isolation Relay	KHAIR0101AAA‡‡		
Evaporator Freeze Thermostat	KAAFT0101AAA‡‡		
Liquid Solenoid Valve (LSV)	KHALS0401LLS		
Winter Start Control	N/A		
Inlet Grille Kit (4 Pack)			
Low-Ambient Controller	P251-0083 (RCD)††		
MotorMaster® Control	32LT660004‡‡‡		
Ball Bearing Fan Motor	HC38GE231		HC40GE232
Thermostat—Auto Changeover, Non-Programmable, °F/°C, 2-Stage Heat, 1-Stage Cool	TSTATBBNHP01-B		
Thermostat—Auto Changeover, 7-Day Programmable, °F/°C, 2-Stage Heat, 1-Stage Cool	TSTATBBPHP01-B		
Thermostat—Auto Changeover, 2-Day Programmable, °F/°C, Dual Fuel Includes Outdoor Sensor (TSTATXXSEN01-B)	TSTATBBPDF01-B***		
Thermostat Control™—Non-Programmable/Programmable Thermostat with Humidity Control (For use in Dual Fuel, AC, HP, and 2S applications. Includes Outdoor Air Temperature Sensor.)	TSTATBBPRH01-B		
Builder's Thermostat, Heat Pump, Non-Programmable, 2-Stage Heat/1-Stage Cool, Manual Changeover, °F/°C	TSTATBBBHP01		
Standard Programmable Thermostat—Manual Changeover, 5-2 Day Programmable, °F/°C, 1-Stage Heat/1-Stage Cool	TSTATBBSHP01		
Outdoor Air Temperature Sensor	TSTATXXSEN01-B		
Backplate for Non-Programmable Thermostat	TSTATXXNBP01		
Backplate for Programmable Thermostat	TSTATXXPBP01		
Backplate for Builder's Thermostat	TSTATXXBBP01		
Backplate for Standard Programmable Thermostat	TSTATXXSBP01		
Thermostat Conversion Kit (4 to 5 Wire)—10 Pack	TSTATXXCNV10		

See notes on page 6.

DETAILED COOLING CAPACITIES* Continued

EVAPORATOR AIR		CONDENSER ENTERING AIR TEMPERATURES °F														
		85			95			105			115			125		
CFM	EWB	Capacity MBtu/h†		Total System Kw**	Capacity MBtu/h†		Total System Kw**	Capacity MBtu/h†		Total System Kw**	Capacity MBtu/h†		Total System Kw**	Capacity MBtu/h†		Total System Kw**
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
663C060-C Outdoor Section With FK4CNB006 Indoor Section																
1750	72	66.7	33.9	5.29	63.7	32.8	5.86	60.5	31.7	6.48	57.2	30.5	7.16	53.6	29.3	7.88
	67	61.8	43.6	5.22	59.0	42.4	5.78	56.0	41.3	6.40	52.9	40.1	7.07	49.7	38.8	7.78
	63††	57.9	42.5	5.16	55.3	41.4	5.72	52.5	40.1	6.33	49.5	38.9	6.99	46.5	37.6	7.69
	62	57.2	53.0	5.15	54.6	51.7	5.71	52.0	50.4	6.32	49.2	48.8	6.98	46.5	46.5	7.70
	57	55.9	55.9	5.13	53.8	53.8	5.70	51.6	51.6	6.32	49.2	49.2	6.98	46.6	46.6	7.70
2000	72	67.8	35.6	5.39	64.7	34.5	5.96	61.5	33.4	6.59	58.1	32.2	7.26	54.4	31.0	7.99
	67	62.6	46.3	5.31	59.7	45.2	5.87	56.6	44.0	6.49	53.4	42.7	7.15	50.0	41.4	7.87
	63††	59.0	45.2	5.26	56.3	44.1	5.82	53.4	42.8	6.44	50.4	41.6	7.09	47.3	40.2	7.80
	62	58.2	56.6	5.24	55.7	55.1	5.80	53.1	53.1	6.42	50.5	50.5	7.09	47.9	47.9	7.81
	57	57.8	57.8	5.24	55.5	55.5	5.80	53.2	53.2	6.42	50.6	50.6	7.10	47.9	47.9	7.82
2250	72	68.3	37.0	5.47	65.5	36.1	6.06	62.2	35.0	6.68	58.7	33.8	7.36	54.6	32.4	8.06
	67	63.5	49.1	5.40	60.6	48.0	5.97	57.4	46.7	6.59	53.8	45.3	7.24	50.4	44.0	7.95
	63††	59.6	47.6	5.34	57.1	46.6	5.92	54.2	45.4	6.53	51.1	44.1	7.19	47.5	42.5	7.88
	62	59.6	59.5	5.34	57.2	57.2	5.91	54.7	54.7	6.53	51.7	51.7	7.20	48.9	48.9	7.92
	57	59.3	59.3	5.34	57.0	57.0	5.90	54.5	54.5	6.53	51.8	51.8	7.20	49.0	49.0	7.92
Multipliers for Determining the Performance With Other Indoor Sections																
Indoor Section		Size	Cooling		Indoor Section	Size	Cooling									
			Capacity	Power			Capacity	Power								
F(A,B)4AN(F,B,C)		060	0.96	1.05	COILS + 333(B,J)AV060100 FURNACE											
FB4ANB		070	0.98	1.04	CC5A/CD5AA		060	0.92	1.00							
FC4BN(F,B)		060	0.96	1.05	CC5A/CD5AW		060	0.96	1.00							
FC4BNB		070	0.98	1.04	CE3AA		060	0.96	1.00							
FG3AAA		060	0.94	1.02	CK3BA		060	0.92	1.01							
FK4CNB		006	1.00	1.00	CK5A/CK5BA		060	0.92	1.01							
CC5A/CD5AA		060	0.93	1.02	CK5A/CK5BX		060	0.96	1.00							
CC5A/CD5AW		060	0.97	1.01	COILS + 333(B,J)AV060120 FURNACE											
CE3AA		060	0.97	1.02	CC5A/CD5AA		060	0.92	1.02							
CK3BA		060	0.93	1.02	CC5A/CD5AW		060	0.95	1.01							
CK5A/CK5BA		060	0.93	1.02	CE3AA		060	0.95	1.02							
CK5A/CK5BN		060	0.93	1.03	CK3BA		060	0.92	1.02							
CK5A/CK5BX		060	0.97	1.03	CK5A/CK5BA		060	0.92	1.02							
		—	—	—	CK5A/CK5BX		060	0.95	1.01							

* Detailed cooling capacities are based on indoor and outdoor unit at the same elevation per ARI standard 210/240-94. If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.

† Total and sensible capacities are net capacities. Blower motor heat has been subtracted.

‡ Sensible capacities shown are based on 80°F (27°C) entering air at the indoor coil. For sensible capacities at other than 80°F (27°C), deduct 835 Btu/h (245 kw) per 1000 CFM (480 L/S) of indoor coil air for each degree below 80°F (27°C), or add 835 Btu/h (245 kw) per 1000 CFM (480 L/S) of indoor coil air per degree above 80°F (27°C).

** System kw is total of indoor and outdoor unit kilowatts.

†† At TVA rating indoor condition (75°F edb/63°F ewb). All other indoor air temperatures are at 80°F edb.

EWB—Entering Wet Bulb

HEAT PUMP HEATING PERFORMANCE Continued

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F																							
		-3			7			17			27			37			47			57			67		
		Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power	Capacity MBtuh		Total Power
EDB	CFM	Total	Integ*	Kw†	Total	Integ*	Kw†	Total	Integ*	Kw†	Total	Integ*	Kw†	Total	Integ*	Kw†	Total	Integ*	Kw†	Total	Integ*	Kw†	Total	Integ*	Kw†
663C060-C Outdoor Section With FK4CNB006 Indoor Section																									
65	1750	28.2	26.0	4.20	33.5	30.8	4.37	39.1	35.7	4.55	45.3	40.2	4.75	52.5	47.8	5.00	60.7	60.7	5.30	70.1	70.1	5.69	79.6	79.6	6.03
	2000	28.6	26.3	4.22	33.8	31.1	4.38	39.5	36.0	4.54	45.7	40.6	4.72	53.0	48.3	4.95	61.3	61.3	5.23	70.7	70.7	5.56	79.4	79.4	5.87
	2250	28.9	26.6	4.26	34.1	31.3	4.40	39.9	36.3	4.55	46.1	41.0	4.72	53.5	48.7	4.93	61.8	61.8	5.20	70.8	70.8	5.48	78.5	78.5	5.75
70	1750	27.8	25.5	4.38	33.2	30.5	4.59	38.8	35.4	4.78	44.9	39.8	4.99	52.0	47.3	5.25	60.0	60.0	5.57	69.3	69.3	5.97	79.7	79.7	6.41
	2000	28.1	25.9	4.41	33.5	30.8	4.59	39.2	35.7	4.77	45.3	40.2	4.96	52.5	47.8	5.20	60.6	60.6	5.49	70.1	70.1	5.87	79.2	79.2	6.18
	2250	28.5	26.2	4.45	33.8	31.1	4.61	39.5	36.0	4.78	45.7	40.6	4.95	52.9	48.2	5.18	61.1	61.1	5.45	70.4	70.4	5.77	78.5	78.5	6.05
75	1750	27.2	25.0	4.57	32.9	30.2	4.80	38.5	35.1	5.02	44.4	39.5	5.24	51.4	46.8	5.52	59.3	59.3	5.84	68.5	68.5	6.26	79.0	79.0	6.80
	2000	27.6	25.4	4.59	33.2	30.5	4.81	38.8	35.4	5.00	44.9	39.8	5.21	52.0	47.3	5.45	60.0	60.0	5.76	69.3	69.3	6.15	79.4	79.4	6.55
	2250	28.0	25.7	4.63	33.5	30.8	4.83	39.2	35.7	5.01	45.2	40.2	5.20	52.4	47.7	5.43	60.4	60.4	5.71	69.9	69.9	6.09	78.8	78.8	6.39
Multipliers for Determining the Performance With Other Indoor Sections																									
Indoor Section		Size	Heating		Indoor Section	Size	Heating																		
			Capacity	Power			Capacity	Power																	
F(A,B)4AN(F,B,C)		060	1.00		COILS + 333(B,J)AV060100 FURNACE																				
FB4ANB		070	1.00		CC5A/CD5AA		060	1.00	1.16																
FC4BN(F,B)		060	1.00		CC5A/CD5AW		060	1.00		1.09															
FC4BNB		070	1.00		CE3AA		060	1.00		1.08															
FG3AAA		060	1.00		CK3BA		060	1.00		1.10															
FK4CNB		006	1.00		CK5A/CK5BA		060	1.00		1.10															
CC5A/CD5AA		060	1.00		CK5A/CK5BX		060	1.00		1.05															
CC5A/CD5AW		060	1.00		COILS + 333(B,J)AV060120 FURNACE																				
CE3AA		060	1.00		CC5A/CD5AA		060	1.00		1.17															
CK3BA		060	1.00		CC5A/CD5AW		060	1.00		1.10															
CK5A/CK5BA		060	1.00		CE3AA		060	1.00		1.09															
CK5A/CK5BN		060	1.00		CK3BA		060	1.00		1.10															
CK5A/CK5BX		060	1.00		CK5A/CK5BA		060	1.00		1.10															
		—	—		CK5A/CK5BX		060	1.00		1.06															

* The Btuh heating capacity values shown are net "integrated" values from which the defrost effect has been subtracted. The Btuh heating from supplement heaters should be added to those values to obtain total system capacity.

† The kw values include the compressor, outdoor fan motor, and indoor blower motor. The kw from supplement heaters should be added to these values to obtain total system kilowatts.

EDB—Entering Dry Bulb

RESOLUTION NO. 2000-92

A RESOLUTION OF THE LODI CITY COUNCIL AUTHORIZING THE CITY
MANAGER TO PROVIDE A PUBLIC BENEFITS CHARGE (PBC) GRANT
TO THE HILL HOUSE MUSEUM

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WHEREAS, the State has mandated that beginning January 1, 1998, the City of Lodi is obligated to fund various programs through a Public Benefits Charge (PBC) based on a historical electric revenue requirement; and

WHEREAS, the requirement amounts to approximately \$1M per year that must be dedicated to qualifying programs such as energy efficiency. A further stipulation is that these efforts must be done on the customer's side of the meter in order to qualify; and

WHEREAS, following the Electric Utility Department's review of The Hill House Museum located at 826 S. Church Street, one specific energy conservation measure emerged:

1.) Installation of two (2) high efficiency heat pumps and related materials to achieve the goal of central heat and air conditioning for the facility. The heat pump units are manufactured by Bryant, and have a Seasonal Energy Efficiency Rating (SEER) of 12.0, which is identified under the City of Lodi Electric Utility program guidelines, as energy efficient.

This funding request qualifies as a candidate under the Public Benefits Program Grant identified as community/non-profit, demand-side management. The grant request is for a total of \$14,700.00.

WHEREAS, the Electric Utility Department recommends that the City provide a PBC Grant - Community/Non-Profit, Demand-Side Management Project of \$14,700.00 toward the above upgrades and include the cost of the grant as part of the City's required PBC outlay.

BE IT RESOLVED, that the Lodi City Council hereby authorizes the City Manager to provide a Public Benefits Charge (PBC) Grant in the amount of \$14,700.00 to The Hill House Museum.

Dated: June 7, 2000

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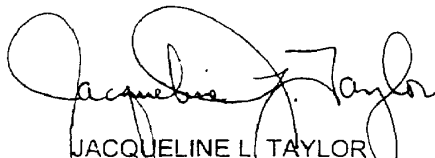
I hereby certify that Resolution No. 2000-92 was passed and adopted by the Lodi City Council in a regular meeting held June 7, 2000 by the following vote:

AYES: COUNCIL MEMBERS – Hitchcock, Land, Nakanishi, Pennino
and Mann (Mayor)

NOES: COUNCIL MEMBERS – None

ABSENT: COUNCIL MEMBERS – None

ABSTAIN: COUNCIL MEMBERS – None


JACQUELINE L. TAYLOR
Interim City Clerk